

An Optical Chassis Pasted with Plating Film Reflection

Thin Plates

Abstract

An optical chassis pasted with plating film reflection thin plates
5 includes: a shell body, a light source, plural reflection elements, a lens set,
and an imaging apparatus. The thin plates of flexible material in lieu of
prior glass material constitute the reflection elements. The reflection
material is plated on one side surface of the thin plates, and the glue is
coated on the other side surface of the thin plates. The thin plates, coated
10 with glue, may be directly pasted onto appropriate positions of an optical
chassis as the reflection elements. Not only the present invention
completely gets rid of the prior positioning devices, such as spring pieces,
screws, and the like, but also it decreases the number of parts, saves
assembly time and lowers the production cost. And, further it is without
15 lowering the quality of image scanning, which is resulted from no loose or
no movement of the reflection elements. In addition, for practical needs,
the thin plate with flexible material may be easily bent or manufactured to
curved face or irregular shape according to requirement.